



CJCSI 3170.01B

Requirements Generation System

(One Year Later)

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The Joint Staff



Agenda



- **Introduction**
- **CJCS 3170 Changes**
- **Role of M&S**
- **Summary**
- **Questions**



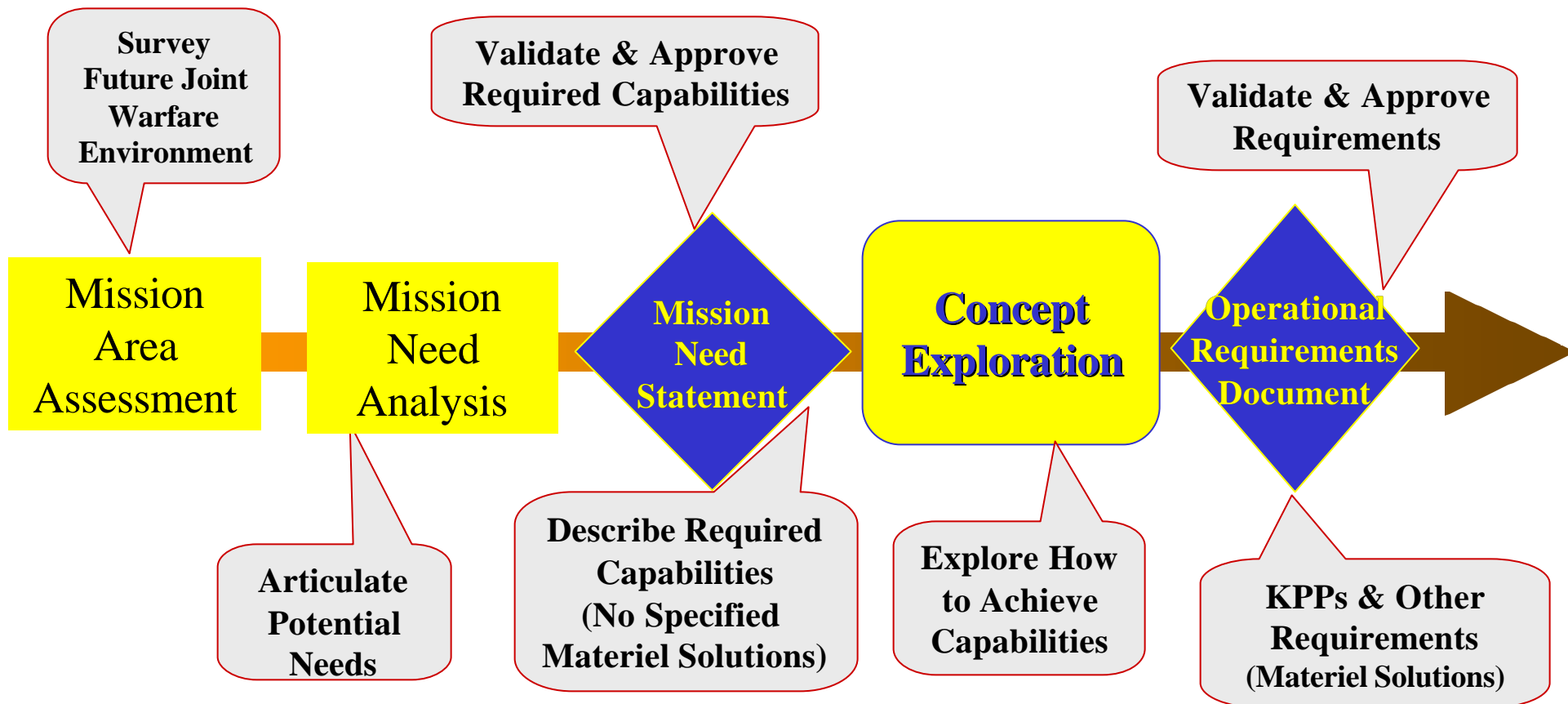
Joint Vision 2020



“Up-front” planning must provide the framework for identifying future operational capabilities!



Requirements Generation Process





CJCSI 3170.01A



SWARF

**Automated Information
Systems**

JFCOM Role

Interoperability

CRD/ORD KPP

**Information Exchange
Requirements**

Affordability

Time Phased Requirements

**CRD Development &
Lead Responsibilities**



Interoperability: JFCOM Role



JFCOM will serve as the Chairman's advocate for joint warfighting interoperability.

- **JFCOM**
 - **Coordinates with the Joint Staff J6, ASD(C3I) and the CINCs in development of the C4ISR Joint Operational Architecture (JOA).**
 - **Provides comments on unresolved Interoperability issues at the JROC.**
 - **Is available to comment on interoperability issues that are forwarded to the DAB by the JROC.**
 - **Coordinates on all C4ISPs (contains IA areas)**
 - **Is Lead for Joint Experimentation**

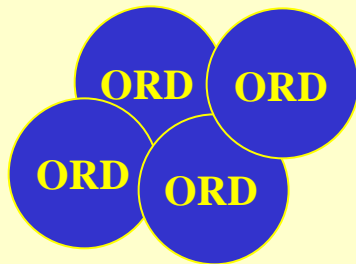
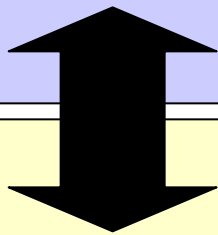


Enforcing Interoperability



Establishes the Information Exchange and Interoperability requirements for the Family of Systems. Leads to the development of the Mission Area architectures

CINC Lead



ORDs comply with CRD Interoperability KPP as price of membership into the Family of Systems

Service Lead



CRD Development and Lead Responsibilities



- **CRD development approved by JROC**
- **CRD contains Interoperability KPP**
- **CRD lead will**
 - Accompanies all ORDs falling under the CRD through the JROC and acquisition milestone reviews
 - Ensures the ORDs KPPs map to the CRD



Information Exchange Requirements (IERs)



Definition:

Requirements for information to be passed between and among Joint forces, organizations, or administrative structures.

(DOD C4ISR Architecture Framework Version 2.0)

Identifies:

- **WHO** exchanges
- **WHAT** information
- with **WHOM**
- **WHY** the information is necessary
- **HOW** the information is used
- **ATTRIBUTES (READ METRICS)** to further define the requirement and add levels of detail necessary to support the warfighter



Time-Phased Requirements



- **Supports Evolutionary Acquisition**
- **Fields system in increasing increments of capability as defined by:**
 - **Warfighter needs**
 - **Evolving threat**
 - **Available technology**
 - **Affordability**



Time-Phased Requirements (*Guidelines*)



- JROC approved KPP's *must* be achieved in the specified increment
 - If increments are not defined in the ORD, all KPP thresholds must be met in the first increment
- Delegated ORD approval authorities may approve “block” ORD's if no KPP's are involved
- Each Increment *must* have *standalone* military utility
 - Must be acceptable to the user even if no further increments are funded (per Clinger-Cohen)



Time-Phased Requirements (*Strategies*)



- **New ORD for each block**
 - Suitable for slowly developing programs
- **Multiple-Block ORD**
 - Define multiple blocks in the same ORD - captures old “P3I”
- **ORD Update for each block**
 - Rapid turnaround update---staff changes only



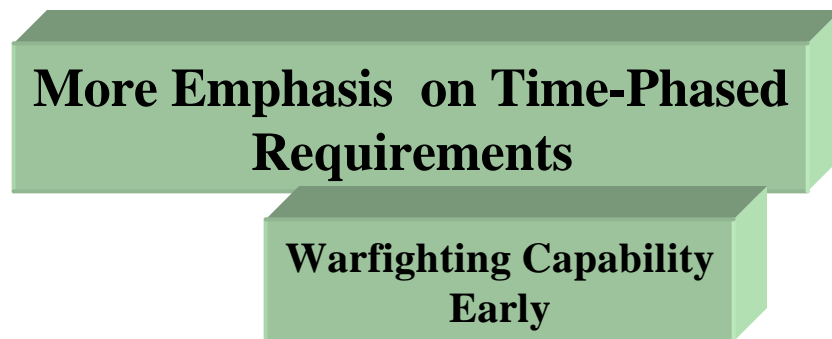
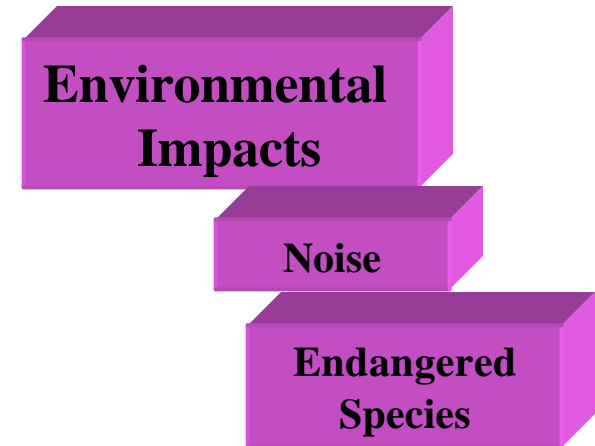
Addressing Cost in ORD



- **Cost will be addressed in the ORD**
- **Inclusion of cost allows DoD component sponsor to emphasize affordability early in the proposed program**
- **Cost figure should be stated in terms of a threshold and Objective (not necessarily a KPP)**
- **The cost figure should provide flexibility to allow for program evolution and CAIV trade studies**
- **DoD component sponsor may make cost a KPP if it desires and identify the cost it wishes to evaluate**



CJCSI 3170.01B (Interim) Changes





DOTMLPF



(Doctrine, Organization, Training, Materiel, Leader Development, Personnel & Facilities)

- **Review for Joint implications**
- **Identify deficiencies and determine solutions and cost**
- **Submit to JROC for approval of solutions and resources**
- **JFCOM has major role – Joint Experimentation**



Roles for M&S



Measuring M&S Effectiveness

- **Outcome-Based Measures**

- Reduced total ownership costs
- Reduced acquisition cycle times
- Increased operational capability
- Improved ability to concurrently deploy systems with their training devices

- **Process-Based Measures**

- Ability to reuse M&S
- Extent of collaboration
- Remain cost effective
- Extent of netted and distributed network

Earlier deployment of affordable, leading-edge capabilities to warfighters



Environmental Impacts



(Noise, Air, Soil, Endangered Species & Other Effects)

- **Encroachments into training areas – reduces proficiency**
- **Restrictions on DT and OT – cannot stress systems on test ranges**
- **Saturation of frequency spectrum – less bandwidth availability**
- **Must be addressed during requirements generation and early system design – Pay Now or Pay Later!**



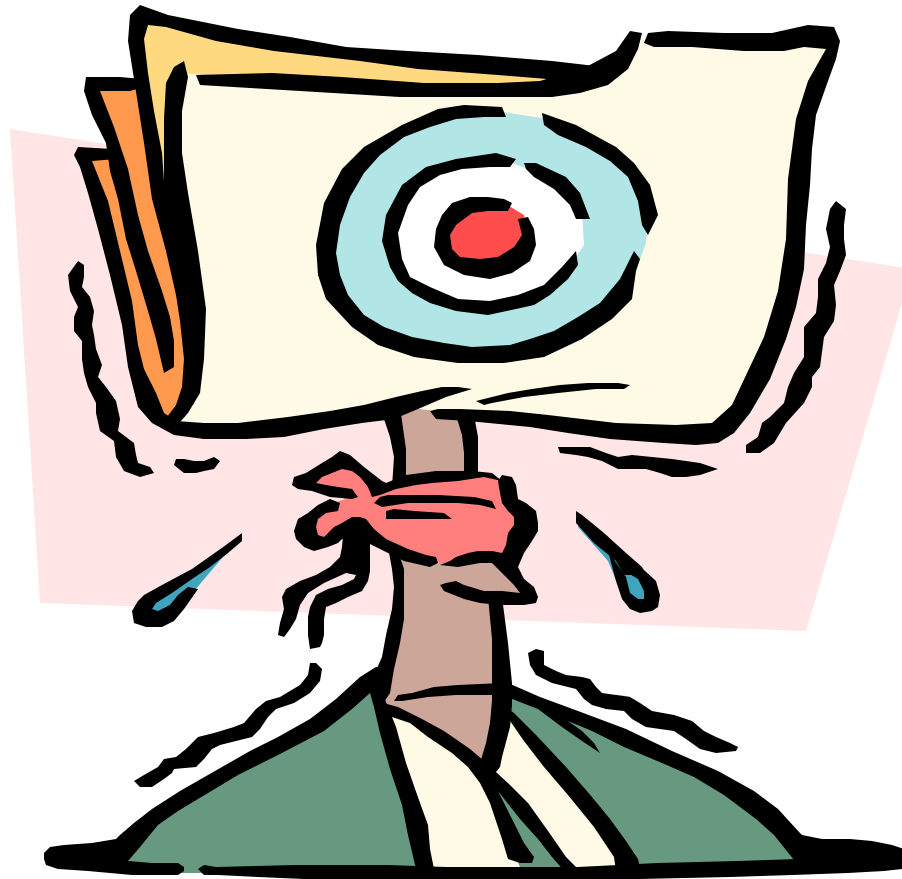
Summary



- **Greater warfighter role in requirements generation**
- **Clear focus on interoperability**
- **Supports evolutionary acquisition & time-phased requirements**
- **Streamlines staffing process where appropriate**
- **More emphasis on DOTMLPF – M&S can add value!**
- **Considers environmental impacts**
- **Early fielding of warfighting capability - M&S can add value!**



Questions





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